Triangle with the height of h

Write a program that takes a single integer, the height of the triangle **h**, then draw an isosceles triangle with the height of **h** and the base width of **2h-1**

Input

A single integer representing the height of the triangle. (height ≥ 2)

Output

Strings with the number of lines equal to the input height that represents the isosceles triangle like the example below.

Example

Input (from keyboard)	Output (on screen)
2	` *` `***`

3	` *`
	` * *`
	`*****`

8	`       *`
	`      * *`
	`     *   *`
	`    *     *`
	`   *       *`
	`  *         *`
	` *           *`
	`***************`